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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,890	12/03/2004	Etienne Degand	4004-064-30 NATL	1708
30448	7590	04/10/2006		EXAMINER
AKERMAN SENTERFITT				JEFFERY, JOHN A
P.O. BOX 3188			ART UNIT	PAPER NUMBER
WEST PALM BEACH, FL 33402-3188			3742	

DATE MAILED: 04/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/516,890	DEGAND ET AL.	
	Examiner	Art Unit	
	John A. Jeffery	3742	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 01 February 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5,7,8 and 10-22 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-5,7,8 and 10-22 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 03 December 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Joint Inventors -- Common Ownership Presumed

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligations under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103.

Claim Rejections - 35 U.S.C. § 103(a)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

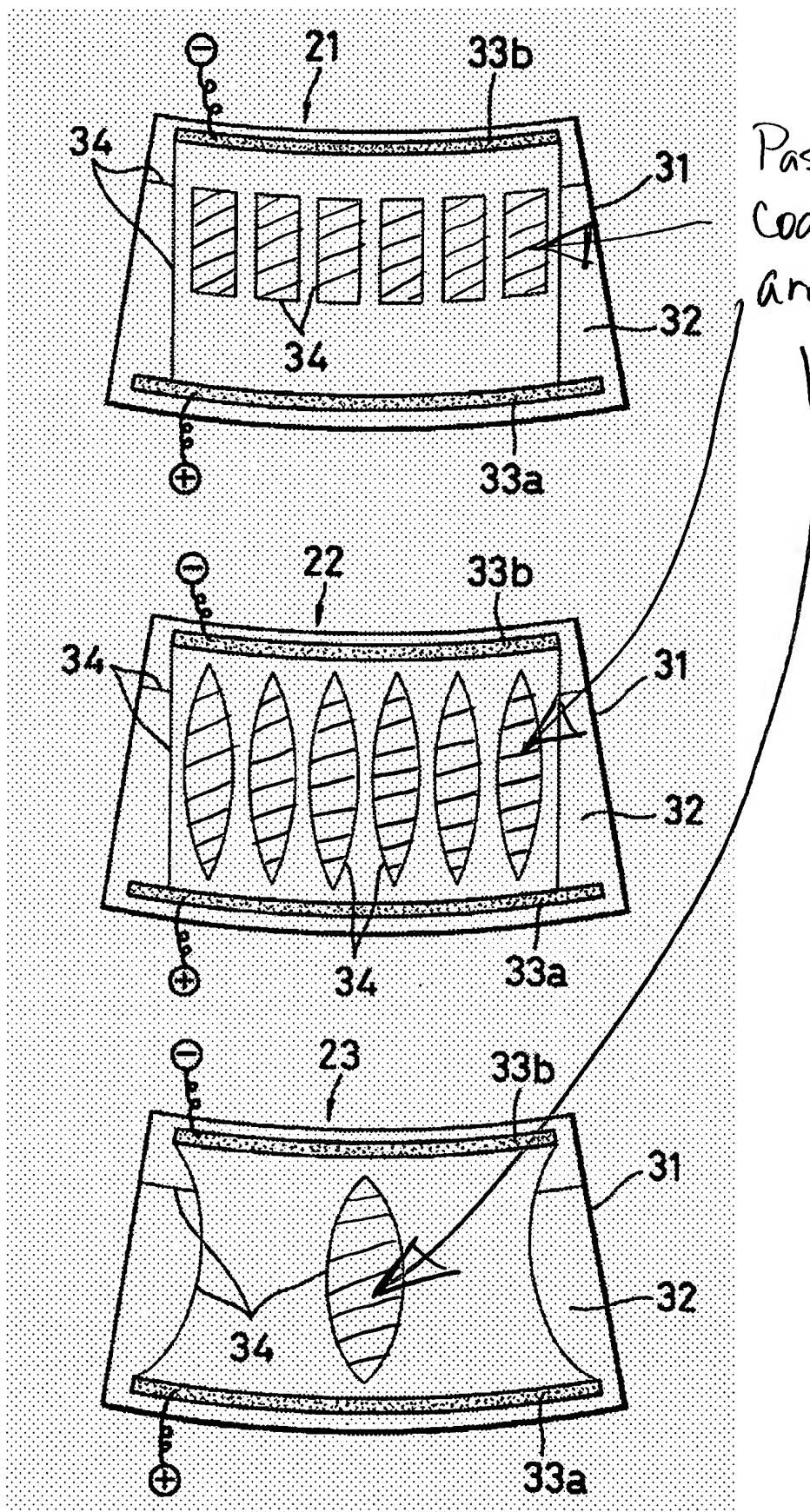
A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-5, 7, 8, 10-12, 15, 18, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomson et al. (US 2,878,357) in view of GB2186769. Thomson et al. (US 2,878,357) discloses an electrically-heated, non-rectangular glazing

panel with bus bars that are non-parallel. The panel is heated by a thin heating layer formed in a plurality of zones. See Figs. 1-3. Such non-uniform bus bar configurations are common in heated transparencies that have non-rectangular shapes, such as triangular shapes. See col. 1, line 62 - col. 2, line 10.

The claims differ from Thomson et al. (US 2,878,357) in calling for the zones to comprise (1) a non-heatable passive coated zone, and (2) an active coated zone that is electrically heated. GB2186769 discloses an electrically heatable glazing panel with a transparent electrically conductive coating layer comprising heatable active coated zones adjacent to passive non-heatable coated zones. See Figs. 2-5, 9, and 15. See also P. 1, lines 70-99. The passive non-heatable coated zones are those coated areas within the periphery of non-conductive slits 34. See the annotated figures from GB2186769 below for clarity. The arrangement shown in Figs. 2 and 5 of GB2186769 inherently forms adjacent heatable and non-heatable "strips."



Such an arrangement limits the current flow path along the heater layer to specific areas, thus varying the current density and altering the heating effect along the transparency as desired. By providing both active and passive coated zones, localized heating variations along the transparency can be achieved with a single electric heater coating by merely slitting the coating. In view of GB2186789, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide active and passive heated and non-heated regions in the previously described apparatus to vary heating along the transparency, yet achieve such heating variation with a single electric heater coating by merely slitting the coating.

Regarding claim 7, note that the conductive portions of GB2186789 (i.e., those portions other than non-conductive portions 34 (i.e., including non-heatable coated zones within the circumference of the non-conductive portions 34)) are 10-50 mm.

Regarding claim 10, the leftmost and rightmost non-heatable coated zones in Fig. 5 of GB2186769 fully read on the claimed "first glazing portion" and "second glazing portion" respectively.

Regarding claim 11, the outermost slits 34 of GB2186789 constitute the "zone boundaries." Each slit is 100 μm or less. See P. 1, line 129 – Page 2, line 2.

Regarding claim 12, Fig. 2 of GB2186769 shows at least 50% of the coating's surface area comprising active coated zones.

Regarding claim 18, see P. 3, lines 102-103 of GB2186789.

Claims 13, 14, 16, 17, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomson et al. (US 2,878,357) in view of GB2186769 and further in view of WO00/72635. The claims differ from the previously described apparatus in calling for a solar control coating and a resistance of 2-25 ohms per square. But electrically-heatable solar control coatings for glazing panels is well known in the art. WO00/72635, for example, discloses an electrically-heatable solar control coating used to heat automotive glass. See abstract. As is well known in the art, solar control coatings not only are electrically heatable, they also reduce incident solar energy while allowing visible light to pass therethrough. See P. 1, lines 17-28. Moreover, as is well known in the art, such electrically heatable coatings have resistances from 2-4, and in some cases, 8-20 ohms per square. See P. 3, lines 20-30. In view of WO00/72635, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a solar control coating in the apparatus of the previously described apparatus to provide a coating that was not only electrically heatable along the surface of the glazing, but also reduces incident solar energy while allowing visible light to pass therethrough.

The claims also differ from the previously described apparatus in calling for the coating to be provided on a flexible sheet forming part of the panel. But forming coatings on flexible sheets in glazing panels is well known in the art as evidenced by WO00/72635 on P. 4, lines 1-3. Such a feature would enable laminating the panel with a pre-coated flexible sheet, thus precluding the need to have expensive coating and deposition equipment on hand during manufacture. In view of WO00/72635, it would have been obvious to one of ordinary skill in the art at the time of the invention to form

the coating on a flexible sheet in the previously described apparatus to enable laminating the panel with a pre-coated flexible sheet, thus precluding the need to have expensive coating and deposition equipment on hand during manufacture.

The claims also differ from the previously described apparatus in calling for the temperature variation to be less than 15 degrees C following voltage application and equilibrium. Fabricating a glazing panel with a heatable coating to uniformly heat the panel notwithstanding the presence of discontinuities in the coating, however, is well known in the art. WO00/72635 discloses providing an electrically conductive band to bound a data transmission window (discontinuity) in the coating to more uniformly heat the panel and minimize perturbations. See abstract and P. 5, lines 6-20. In view of WO00/72635, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide means to uniformly heat the panel notwithstanding the presence of discontinuities in the coating to minimize heating perturbations and hot spots along the panel.

The claims also differ from the previously described apparatus in calling for the panel to be thermally toughened. But such a toughening technique is well known in the art as evidenced by WO00/72635 in P. 5, line 3 (disclosing tempering). In view of WO00/72635, it would have been obvious to one of ordinary skill in the art at the time of the invention to thermally toughen the panel, such as tempering, to increase the panel's durability and strength.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over GB2186769 in view of Thomson et al. (US 2,878,357) and further in view of Spagnoli et al (US 5,466,911). The claim differs from the previously described apparatus in calling for the glazing to be an automotive side window and to have at least one acute angle. But electrically-heated automotive side windows are well known in the art. Spagnoli et al (US 5,466,911), for example, discloses an electrically heated glazing for a vehicle's side window for deicing so that the rear view mirror 112 can be observed through the window. See Fig. 1A. Note also the glazing's acute angle. In view of Spagnoli et al (US 5,466,911), it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the glazing for a vehicle side window in the previously described apparatus to clear ice from the side window so that the rear view mirror can be observed through the window.

Response to Arguments

Applicant's arguments have been considered but are deemed to be moot in view of the new grounds of rejection.

Final Rejection

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

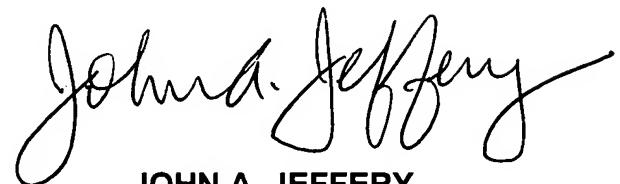
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Jeffery whose telephone number is (571) 272-4781. The examiner can normally be reached on Tuesday - Friday from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans, can be reached on (571) 272-4777. All faxes should be sent to the centralized fax number at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JOHN A. JEFFERY
PRIMARY EXAMINER

4/4/06